

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-3 (cancelled)

4. (currently amended) ~~A~~ The radiant heat transfer panel set forth in claim 1, wherein said tray comprises adapted to communicate with a fluid conduit comprising:

a formed tray;

said tray comprising a fixture tower and defining a containment space and a conduit channel;

said space containing a thermal mass;

said channel, containment space and thermal mass configured and arranged to permit heat transfer between said channel and said thermal mass.

5. (currently amended) The radiant heat transfer panel set forth in claim 4 ~~+~~, wherein said tray comprises a side gusset.

6. (currently amended) The radiant heat transfer panel set forth in claim 4 ~~+~~, wherein said conduit channel is a U-shaped trough or is cylindrical.

Claim 7 (cancelled)

8. (currently amended) The radiant heat transfer panel set forth in claim 4 ~~+~~, wherein said conduit channel comprises a linear section and an arcuate section.

Claim 9 (cancelled)

10. (currently amended) The radiant heat transfer panel set forth in claim 4, wherein said thermal mass comprises a composition selected from a group consisting of cement, mortar, ceramic, concrete and stone.

Claim 11 (cancelled)

12. (currently amended) ~~A~~ The radiant heat transfer panel set forth in claim 1, wherein said thermal mass ~~has~~ adapted to communicate with a fluid conduit comprising:

a formed tray;

said tray defining a containment space and a conduit channel;

said space containing a thermal mass;

said thermal mass having an outer surface and said outer surface is finished flooring surface;

said channel, containment space and thermal mass configured and arranged to permit heat transfer between said channel and said thermal mass.

Claims 13-16 (cancelled)

17. (currently amended) ~~A~~ The radiant heat system set forth in claim 14, and further comprising:

multiple radiant heat transfer panels;

each of said panels comprising a formed tray defining a containment space and a conduit channel, said space containing a thermal mass;

an attachment spacer;

a fluid conduit;

said conduit communicating with an apparatus for heating a fluid flowing through said conduit;

said multiple panels positioned adjacent each other such that said conduit extends through a series of said conduit channels;

said panels, conduit and apparatus configured and arranged to permit heat transfer from said fluid to said thermal mass;

whereby heat radiates from said panels.

18. (original) The radiant heat system set forth in claim 17, wherein said attachment spacer is wood.

19. (currently amended) A ~~The~~ radiant heat system set forth in claim 14, and further comprising:

multiple radiant heat transfer panels;

each of said panels comprising a formed tray defining a containment space and a conduit channel, said space containing a thermal mass;

an edge spacer;

a fluid conduit;

said conduit communicating with an apparatus for heating a fluid flowing through said conduit;

said multiple panels positioned adjacent each other such that said conduit extends through a series of said conduit channels;

said panels, conduit and apparatus configured and arranged to permit heat transfer from said

fluid to said thermal mass;

whereby heat radiates from said panels.

Claims 20-23 (cancelled)

24. (currently amended) The radiant heat system set forth in claim ~~14~~ 17, and further comprising an ~~attachment spacer and~~ over-layer, wherein said over-layer is attached to said attachment spacer by mechanical fastener.

25. (currently amended) ~~A~~ The radiant heat system set forth in claim ~~14~~, wherein comprising:

multiple radiant heat transfer panels;

each of said panels comprising a formed tray defining a containment space and a conduit channel, said space containing a thermal mass;

said multiple panels ~~define~~ defining an outer perimeter, and

said outer perimeter ~~being~~ is immediately adjacent a standing wall;

a fluid conduit;

said conduit communicating with an apparatus for heating a fluid flowing through said conduit;

said multiple panels positioned adjacent each other such that said conduit extends through a series of said conduit channels;

said panels, conduit and apparatus configured and arranged to permit heat transfer from said fluid to said thermal mass;

whereby heat radiates from said panels.

26. (currently amended) The radiant heat system set forth in claim ~~14~~ 19, and further comprising ~~an edge spacer and a standing wall, and wherein said multiple panels define an outer perimeter, said wall defines an inner perimeter, and said edge spacer is between said outer perimeter and said inner perimeter.~~

Claims 27-33 (cancelled)

34. (currently amended) ~~A~~ The method of forming a radiant heat system set forth in claim 29, and further comprising the steps of:

providing an under-layer having a given area;

providing multiple panels, each of said panels comprising a formed tray defining a containment space and a conduit channel, said space containing a thermal mass;

providing an attachment spacer;

providing conduit;

positioning said conduit over or under said under-layer in a predetermined pattern corresponding to said conduit channels;

positioning said panels over or under said under-layer such that said conduit extends through at least a portion of said conduit channels of said panels; and

positioning said attachment spacer adjacent at least one of said panels.

35. (original) The method of forming a radiant heat system set forth in claim 34, and further comprising the step of attaching said attachment spacer to said under-layer.

36. (previously presented) The method of forming a radiant heat system set forth in claim 35, wherein said panels are positioned over said under-layer and further comprising the step of providing an over-layer.

37. (original) The method of forming a radiant heat system set forth in claim 36, and further comprising the step of attaching said over-layer to said attachment spacer.

38. (previously presented) A radiant heat system comprising:

- multiple radiant heat transfer panels;

- each of said panels having a thermal mass and a conduit channel;

- a wood attachment spacer;

- a fluid conduit;

- said conduit communicating with an apparatus for heating a fluid flowing through said conduit;

- said multiple panels and said attachment spacer positioned adjacent each other such that said conduit extends through a series of said conduit channels;

- said panels, conduit and apparatus configured and arranged to permit heat transfer from said fluid to said thermal mass of said panel;

- whereby heat radiates from said panels.

39. (previously presented) A radiant heat system comprising:

- multiple radiant heat transfer panels;

- each of said panels having a thermal mass and a conduit channel;

an attachment spacer;
an over-layer attached to said attachment spacer by mechanical fastener;
a fluid conduit;
said conduit communicating with an apparatus for heating a fluid flowing through said conduit;

said multiple panels and said attachment spacer positioned adjacent each other such that said conduit extends through a series of said conduit channels;

said panels, conduit and apparatus configured and arranged to permit heat transfer from said fluid to said thermal mass;

whereby heat radiates from said panels.

40. (previously presented) A method of forming a radiant heat system comprising the steps of:

providing an under-layer having a given area;

using a filler substance to fill a fault or irregularity in said under-layer

providing multiple panels having a thermal mass and a conduit channel;

providing conduit;

positioning said conduit over or under said under-layer in a predetermined pattern corresponding to said conduit channels;

positioning said panels over or under said under-layer such that said conduit extends through at least a portion of said conduit channels of said panels.

41. (previously presented) A method of forming a radiant heat system comprising the steps of:

providing an under-layer having a given area;

providing multiple panels having a thermal mass and a conduit channel;
providing conduit;
positioning said conduit over or under said under-layer in a predetermined pattern corresponding to said conduit channels;
positioning said panels over or under said under-layer such that said conduit extends through at least a portion of said conduit channels of said panels;
providing an attachment spacer;
positioning said attachment spacer adjacent at least one of said panels.

42. (previously presented) The method of forming a radiant heat system set forth in claim 41, and further comprising the step of attaching said attachment spacer to said under-layer.

43. (previously presented) The method of forming a radiant heat system set forth in claim 42, wherein said panels are positioned over said under-layer and further comprising the step of providing an over-layer.

44. (previously presented) The method of forming a radiant heat system set forth in claim 43, and further comprising the step of attaching said over-layer to said attachment spacer.